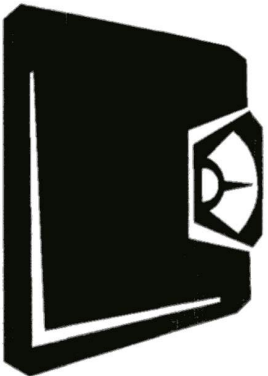


## SPACE WEIGHT



How much would you weigh on other planets?

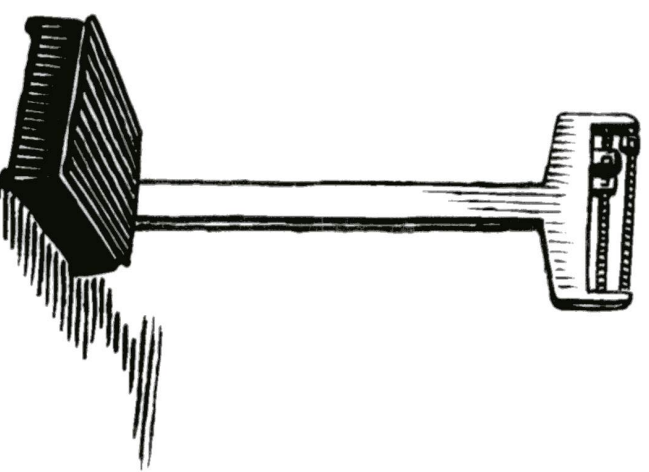
- 1) Use a scale to weigh yourself. Record your weight on a sheet of paper.
- 2) Use a calculator to figure your weight on each of the other seven planets and the Sun by multiplying your Earth weight by the number in the "Gravitational Force" column of the Space Weight chart below. Record your answers on your paper.

<u>Space Weight Chart</u>		
Space Body	Gravitational Force	Your Space Weight
Mercury	0.4	
Venus	0.9	
Earth	1.0	
Mars	0.4	
Jupiter	2.5	
Saturn	1.1	
Uranus	0.8	
Neptun	1.2	
Sun	28	

Where would you weigh the most?

Where would you weigh the least?

How does gravity play a role in your results?



## Why Does Earth Have Day and Night?

We placed a lamp with a bare bulb in the middle of a table to represent the sun. We then put a globe about 1 meter away from the “sun” to represent Earth.

- 1) When the lights were turned off and the room was darkened, which parts of the globe had light shining on them?
- 2) Which parts of the globe were in shadow?
- 3) Take a look at the globe. Take about 5 seconds to turn the globe once. Notice when it is lit (or daytime) in Lincoln, Nebraska and when it is dark (or nighttime) in Lincoln, Nebraska.
- 4) When it is daytime in Lincoln, Nebraska, what major continent(s) are at nighttime?
- 5) How does one complete turn of the globe represent one day?